AMENDMENTS TO THE CLAIMS:

1.-43. (Canceled)

(Currently Amended) A medical implant apparatus, comprising: 44.

a receiver member having a longitudinal axis and defining an upper opening portion and a lower opening portion, a channel transverse to and communicating with said upper opening portion, and an interior groove in said member substantially perpendicular to said axis, said upper opening portion having an internal thread and said lower opening portion being cylindrical and having a diameter;

a retaining member having an inner dimension and an outer dimension, said outer dimension being larger than said lower opening portion diameter, said retaining member occupying said groove, and wherein said retaining member comprises a substantially planar member having a top surface and an opposite bottom surface defining an overall height therebetween, and having a body width that is substantially constant throughout said retaining member between said top surface and said bottom surface along said overall height;

a longitudinal member at least partially within said channel; and

a set screw threaded into said internal thread of said receiver member and contacting said longitudinal member.

- (Previously Presented) The apparatus of claim 44, wherein said groove 45. communicates with said lower opening portion of said receiver member.
- (Previously Presented) The apparatus of claim 44, wherein said retaining member 46. is a substantially circular ring member.
 - 47. (Canceled)
- (Previously Presented) The apparatus of claim 46, wherein said ring member 48. includes a gap whereby said ring member can be contracted.

Response to Non-Compliant Amendment Application Serial No. 10/731,210

Inventors: Barker et al.

Filing Date: December 9, 2003

Page 3 of 9

- (Previously Presented) The apparatus of claim 44, wherein when said retaining 49. member is within said groove, said retaining member is substantially immovable in a radial direction.
- (Previously Presented) The apparatus of claim 44, further comprising a bone 50. anchor having a head within said receiver member, said head having a diameter larger than said inner dimension of said retaining member.
- (Previously Presented) The apparatus of claim 50, wherein said head of said bone 51. anchor is substantially between said retaining member and said upper opening portion.
- (Previously Presented) The apparatus of claim 50, wherein said retaining member 52. substantially surrounds a part of said bone anchor.
 - 53. (Canceled)
 - 54. (Canceled)
- (Currently Amended) The apparatus of claim 54 58, further comprising a 55. longitudinal member at least partially within said channel.
 - 56. (Canceled)
 - 57. (Canceled)
- (Currently Amended) The apparatus of claim 57, An apparatus for receiving and 58. holding components of a multi-axial bone anchor system, comprising:

a receiver member defining an upper opening portion and a lower opening portion, a channel transverse to and communicating with said upper opening portion and said lower opening portion, and a groove around at least a portion of said lower opening portion, said lower

Page 4 of 9

Response to Non-Compliant Amendment Application Serial No. 10/731,210

opening portion having a first cylindrical portion adjoining and above said groove and a second cylindrical portion adjoining and below said groove;

a closure member at least partially within said upper opening portion, wherein said closure member includes a set screw, and wherein said receiver member includes internal reverse-angle threads, and said set screw includeds external threads capable of threadable mating with said reverse-angle threads; and

a bone anchor member having a head at least partially within said lower opening portion, wherein said receiver member includes at least two branches defining said channel, said branches being internally threaded.

59.-69. (Canceled)

70. (Currently Amended) A medical implant apparatus, comprising:

a receiver member having a longitudinal axis and defining an upper opening portion and a lower opening portion, a channel transverse to and communicating with said upper opening portion, and an interior groove in said receiver member, said groove having an upper limiting surface and a lower limiting surface, both of said limiting surfaces being substantially perpendicular to said axis and defining a groove height;

a retaining member having an inner dimension and an outer dimension, said retaining member occupying said groove, and wherein said retaining member has a top surface, an opposite bottom surface, and an overall height between said top surface and said bottom surface that is substantially equal to said groove height; and

a longitudinal member at least partially within said channel,

wherein said upper opening portion is internally threaded and has an inner-crest diameter, and wherein said lower opening portion diameter is larger than said inner crest diameter.

71. (Previously Presented) The apparatus of claim 70, wherein said groove is between two cylindrical portions of said lower opening portion.

Response to Non-Compliant Amendment Application Serial No. 10/731,210 Inventors: Barker et al. Filing Date: December 9, 2003

Page 5 of 9

72. (Previously Presented) The apparatus of claim 70, further comprising a bone anchor having a head that is at least part spherical and a crown member, said apparatus having a locked condition in which said anchor head contacts said retaining member and said crown member but not said receiver member.

73. (Canceled)

74. (Currently Amended) A medical implant apparatus, comprising:

a receiver member having a longitudinal axis and defining an upper opening portion and a lower opening portion, a channel transverse to and communicating with said upper opening portion, and an interior groove in said lower opening portion, wherein said lower opening portion is substantially cylindrical and has a diameter, and said groove has a groove diameter, and said groove diameter is larger than said lower opening portion diameter;

a retaining member having an inner dimension and an outer dimension diameter, said retaining member comprising a substantially circular ring member that can be contracted for insertion into said groove, and wherein said retaining member has an outer diameter in a natural non-contracted condition that is greater than said groove diameter such that said retaining member is compressed against an outer wall of said groove and is substantially immovable in a radial direction when occupying said groove; and

a longitudinal member at least partially within said channel,

wherein said upper opening portion is internally threaded and has an inner crest diameter, and wherein said lower opening portion diameter is larger than said inner crest diameter.

- 75. (Previously Presented) The apparatus of claim 74, wherein said groove is between two cylindrical portions of said lower opening portion.
- 76. (Previously Presented) The apparatus of claim 74, further comprising a bone anchor having a head that is at least part spherical and a crown member, said apparatus having a locked condition in which said anchor head contacts said retaining member and said crown member but not said receiver member.

Response to Non-Compliant Amendment Application Serial No. 10/731,210 Inventors: Barker et al.

Filing Date: December 9, 2003

Page 6 of 9

77. (Previously Presented) The apparatus of claim 52, wherein said part of said bone anchor substantially surrounded by said retaining member is a neck of said bone anchor.